

Notice of Allowability

Application No.

09/867,685

Applicant(s)

TAKAHASHI, SUSUMU

Examiner

Nitin Patel

Art Unit

2673

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/15/2005.
2. ☒ The allowed claim(s) is/are 1-32.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

REASON FOR ALLOWANCE

1. 1-32 is allowed.
2. The following is an examiner's statement of reason for allowance:

The prior art fails to teach or suggest a 3-D display device having a display means that displays left and right images at respective left and right position on a display panel, the left and right images being partially overlapped on the display panel; an optical magnifying system having left and right optical viewing systems with respective optical axes that are separate and aligned substantially parallel with one another, the left optical viewing system having an exit pupil and an effective aperture that includes the optical axis of the right optical viewing system and the right optical viewing system having an exit pupil and an effective aperture that includes the optical axis of the left optical viewing system; wherein of the left and right images displayed on the display panel, only the left images are viewable at the left exit pupil and only the right images are viewable at the right exit pupil as claimed in claim 1.

The prior art fails to teach or suggest the left and right images being partially overlapped on the display panel; an optical magnifying system having left and right optical viewing systems with respective optical axes that are separate and aligned substantially parallel with one another, the left optical viewing system having an exit pupil and an effective aperture that includes the optical axis of the right optical viewing system and the right optical viewing system having an exit pupil and an effective aperture that includes the optical axis of the left optical viewing system; wherein of the left and right images displayed on the display panel, only the left images are viewable at

Art Unit: 2673

the left exit pupil and only the right images are viewable at the right exit pupil ; the left and right images have polarization which are independent of each other; the left and right optical viewing systems of the optical magnifying system have polarization which are independent of each other and the polarization of the right image is the same as the polarization of the right viewing system, and the polarization of the left image is the same as the polarization of the left viewing system as claimed in claim 2.

The prior art fails to teach or suggest a display means that displays left and right images at respective left and right position on a display panel, the left and right images being partially overlapped on the display panel and an optical magnifying system having left and right optical viewing systems with respective optical axes that are aligned substantially parallel with one another, the left optical viewing system having an exit pupil and an effective aperture that includes the optical axis of the right optical viewing system, and the right optical viewing system having an exit pupil and an effective aperture that includes the optical axis of the left optical viewing system; wherein of the left and right images displayed on the display panel, only the left images are viewable at the left exit pupil and only the right images are viewable at the right exit pupil; the display means displays the left and right images alternately on the display panel in a time-multiplexed manner and the displaying of the left and right images is synchronized with a switching operation between the left and right optical viewing systems so that the right optical viewing system forms only right images and the left optical viewing system forms only left images as claimed in claim 3.

Art Unit: 2673

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

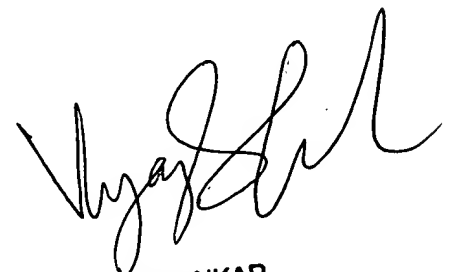
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Patel whose telephone number is 571-272-7677. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin H. Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NP

November 22, 2005



VIJAY SHANKAR
PRIMARY EXAMINER